

KEYNOTE SPEAKERS

Monday 29 April

Broadway Ballroom, 6th Floor

7:50 – 8:40



OPENING PLENARY

Keynote speaker: Dr. Ravi Sethi,
President, Avaya Labs

Ravi Sethi is President of Avaya Labs, the world-class research and development arm of Avaya, with over 3,000 people focused on converged voice and data communication, customer relationship management, and unified communications. Avaya Labs creates competitive solutions for Avaya's customers.

Ravi joined Avaya to launch a research program aimed at the future of enterprise commun-

cation. He has attracted top researchers in collaborative applications, multimedia technologies, data analysis, network software, software technologies, and computing principles. He outlined these areas, attracted leaders, and worked with them to build up the research program. A novel Research Realization Center speeds the flow of promising ideas into potential products.

He came to Avaya from Bell Labs, where he was senior vice president for communications sciences research, and before that, computing and mathematical sciences research. Between these roles, he was responsible for two of the three research divisions at Bell Labs. Concurrently, Sethi served as vice president of product innovation for Lucent's Communications Software Group. Several new products based on research technology were launched under his leadership.

For his technical contributions to compilers and programming languages, Sethi was nominated a fellow of the Association for Computing Machinery (ACM) in 1996. He is a co-author of the textbook, *Compilers: Principles, Techniques and Tools*, and author of the textbook *Programming Languages: Concepts and Constructs*.

Dr. Sethi has a Ph.D. in electrical engineering, specializing in computer science, from Princeton University (1973) and a bachelor of technology degree from the Indian Institute of Technology at Kanpur (1968). He was a professor at Penn State (1972-1976) and the University of Arizona (1979-1980). He joined Bell Labs in 1976 and came to Avaya in May 2000.

Tuesday 30 April

Broadway Ballroom, 6th Floor

7:50 – 8:40

Keynote Speaker: Mark Weglein, Senior Vice-President – Technology, Chief Technology Officer, Verizon Communications

Mark Weglein is Senior Vice President – Technology, and Chief Technology Officer (CTO) for Verizon Communications. He is responsible for technology assessment, network architecture, technology planning, platform development and laboratory infrastructure

for the wireline Communications business. In addition, he oversees two groups providing technology solutions for government and commercial customers: Federal Network Systems and BBN Technologies. In his current role, he and his organization support all business units in the management of technology matters.

Prior to his current assignment, Weglein served as Vice President, Technology & Engineering at Bell Atlantic Network Services, where he was responsible for all technology and engineering functions. And prior to that, he was CTO at Bell Atlantic Network Services.

Since joining Bell Atlantic, he has also held a variety of other management positions in strategic planning, network architecture, technology development, information systems, research and development, broadband implementation and new services technology.

Weglein began his career in 1972 with Bell Telephone Laboratories in local switching systems development. In 1979, he joined the exchange switching systems design organization at AT&T General Departments, where he had responsibility for the introduction of new features and services on local switching systems. In 1983, he held a brief assignment with Bell Laboratories in local switching systems engineering before transferring to Bell Atlantic.

Weglein received a B.A. in mathematics in 1972 from St. John's University in Minnesota, and an M.S. in electrical engineering and computer science in 1974 from the University of California at Berkeley.

Wednesday 1 May

Broadway Ballroom, 6th Floor

7:50 – 8:40

Keynote Speaker: Dr. Michael Hluchyj, Founder & CTO, Sonus Networks



As Founder and Chief Technology Officer of Sonus Networks, Mike Hluchyj is responsible for setting the technical direction of the company and promoting the company's continuous innovation. Before founding Sonus in 1997, he was Vice President and Chief Technology Officer at Summa Four (recently acquired by Cisco), a leading supplier of intelligent, programmable switches for use in carrier networks. Prior to this, Dr.

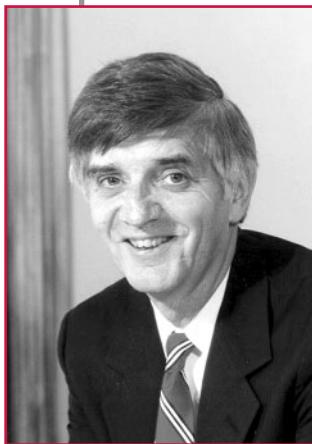
Hluchyj was Director of Networking Research at Motorola Codex and on the technical staff at AT&T Bell Laboratories. He is a Fellow of the IEEE and serves on the Technical Advisory Council of the International Softswitch Consortium. Dr. Hluchyj is widely published on subjects such as cell relay switching and traffic management in integrated networks and is a frequent speaker at industry events. He has been awarded 25 U.S. patents. Dr. Hluchyj received his BS degree in Electrical Engineering from the University of Massachusetts at Amherst, and his Masters and Ph.D. degrees in Electrical Engineering from the Massachusetts Institute of Technology.



Tuesday 30 April

Broadway Ballroom, 6th Floor

8:50 - 10:20 AM



A PANEL DISCUSSION OF IEEE COMMUNICATIONS SOCIETY

PAST PRESIDENTS

Chaired by:

Dr. Robert W. Lucky, *Corporate Vice President, Applied Research, Telcordia Technologies*

Panel Chair

Bob Lucky joined AT&T Bell Labs in 1961, after receiving his B.S.E.E. (1957), M.S.E.E. (1959), and Ph.D. (1961) all from Purdue University. He has spent his entire career at Bell Labs and Bellcore, where he is currently Corporate Vice President, Applied Research. He is the author of about 70 technical publications and has received 11 patents. He is most noted for his work on data communications, particularly his invention of the adaptive equalizer, which is a key enabler for high-speed data modems today. Dr. lucky was president of IEEE ComSoc in 1978-1979.

Panel Members

Fred Andrews received his B.S. degree in electrical engineering from the Pennsylvania State University in 1948 and joined AT&T Bell Laboratories that same year. He remained at Bell Labs until 1983, where he worked on research related to switching circuits and systems and obtained ten patents. He was named Executive Director in 1979, and when Bellcore was established in 1984 he was one of the founding corporate officers. Dr. Andrews was president of IEEE ComSoc in 1986-87.

Paul Green made pioneering contributions to spread spectrum, channel adaptive receivers (Rake), radar astronomy, and seismic array signal processing during his 20 years with MIT Lincoln Laboratory. From 1969 to January, 1997 he was variously a senior manager at IBM's Research Division or a member of IBM's Corporate Technical Committee. His technical interests centered around signal processing, peer networking, and later fiber optic networking. In 1979 he initiated the program that later became APPN, the peer network control generation of SNA, and in 1988 the optical networking program, which was acquired by Tellabs in January 1997. Dr. Green was president of IEEE ComSoc in 1992-1993.

Robert E. Kahn is Chairman, CEO and President of the Corporation for National Research Initiatives (CNRI), which he founded in 1986 after a thirteen-year term at the U.S. Defense Advanced Research Projects Agency (DARPA). After receiving a B.E.E. from the City College of New York in 1960, Dr. Kahn earned M.A. and Ph.D. degrees from Princeton University in 1962 and 1964 respectively. He worked on the Technical Staff at Bell Laboratories and then became an Assistant Professor of Electrical Engineering at MIT. He took a leave of absence from MIT to join Bolt Beranek and Newman, where he was responsible for the system design of the Arpanet, the first packet-switched network. In 1972 he moved to DARPA and subsequently became Director of DARPA's Information Processing Techniques Office (IPTO). He is a co-inventor of the TCP/IP protocols and was responsible for originating DARPA's Internet Program. Dr. Kahn also coined the term National Information Infrastructure (NII) in the mid 1980s, which later became more widely known as the Information Super Highway.

Jack McDonald is founder and President of MBX Inc. a communications research organization headquarters in LaQuinta, CA. Prior to founding MBX, he was Chief Scientist for Contel who merged with GTE and Bell Atlantic to become Verizon. He received the BSEE, MSEEE and Deg. of EE from Stanford University in 1957, 1959 and 1964 respectively. He is currently a member of the board of Axel Johnson, Inc. and the Burnham Fund. He is an IEEE Life Fellow and a member of the National Academy of Engineering. He has published more than 70 technical papers, co-authored 2 books, and received 20 patents. Dr. MacDonald was president of IEEE ComSoc in 1988-1989.

Mischa Schwartz is the Charles Batchelor Professor Emeritus of Electrical Engineering at Columbia University. He is the author or co-author of nine books and more than 150 technical publications on communication theory and systems, signal processing and computer communication networks. He is on the editorial boards of Networks; Telecommunication Systems; the Japanese journal IEICE Transactions on Communications; The Journal on Wireless Networks; Mobile Computing and Communications Review and Mobile Networks and Applications. In 1984, the IEEE centennial year, he was cited as one of the 10 all-time outstanding electrical-engineering educators. He served from 1985 to 1988 as director of the Columbia University Center for Telecommunications Research, one of six national Engineering Research Centers established in 1985 under major grants from the National Science Foundation. Dr. Schwartz was president of IEEE ComSoc in 1984-1985.